



MRP System Performance Monitoring Checklist

System Response Times

Assess the speed of key MRP functions and identify potential bottlenecks.

MRP Planning Run Start Time

MRP Planning Run End Time

Planning Run Duration (minutes)

Enter a number...

Material Requirement Calculation Time (seconds)

Enter a number...

Bill of Materials (BOM) Retrieval Time (seconds)

Enter a number...

Inventory Status Update Time (seconds)

Data Processing Efficiency

Evaluate the time taken for data calculations, updates, and reports.

MRP Planning Run Duration (minutes)

Material Requirement Calculation Time (seconds)

Bill of Materials (BOM) Calculation Time (seconds)

Work Order Generation Time (seconds)

Inventory Update Processing Time (seconds)

Observed Processing Anomalies

Write something...

Date of Data Processing Check

Enter date...

Report Generation Time

Monitor the duration of essential MRP reports and investigate slow-downs.

Standard MRP Plan Run Time (minutes)

Enter a number...

Actual MRP Plan Run Time (minutes)

Enter a number...

Report Start Time

Report End Time

Report File Size (MB)

Enter a number...

Notes on Report Generation Time

Write something...

CPU and Memory Utilization

Track resource usage to identify overload and optimize hardware configuration.

Average CPU Utilization (%)

Enter a number...

Peak CPU Utilization (%)

Enter a number...

Average Memory Utilization (%)

Enter a number...

Peak Memory Utilization (%)

Enter a number...

Date of Monitoring

Enter date...

Time of Monitoring

Observations/Comments on Resource Usage

Write something...

Database Performance

Analyze database query times and overall efficiency for data retrieval and updates.

Average Query Execution Time (seconds)

Enter a number...

Database CPU Utilization (%)

Enter a number...

Database Memory Usage (MB)

Enter a number...

Number of Active Database Connections

Enter a number...

Recent Slow Query Logs (if available)

Write something...

Date of Last Database Performance Review

Enter date...

Database Indexing Strategy (Review)

- ☐ Optimal
- ☐ Needs Improvement
- ☐ Not Applicable

Network Latency

Evaluate network performance affecting MRP system accessibility and data transfer rates.

Average Round Trip Time (ms)

Enter a number...

Peak Round Trip Time (ms)

Enter a number...

Packet Loss (%)

Enter a number...

Jitter (ms)

Enter a number...

Network Connectivity Type

- ☐ LAN
- ☐ WAN
- ☐ VPN
- ☐ Wireless

Date of Latency Measurement

Enter date...

Time of Latency Measurement

Concurrent User Performance

Test system responsiveness under various user load scenarios.

Number of Simulated Users

Enter a number...

Duration of Test (minutes)

Enter a number...

Average Transaction Response Time (seconds)

Enter a number...

Maximum Transaction Response Time (seconds)

Enter a number...

Transactions Performed (select all that apply)

- ☐ Material Requirements Planning (MRP) Run
- ☐ Bill of Materials (BOM) Modification
- ☐ Inventory Level Update
- ☐ Production Order Creation
- ☐ Report Generation

Observed Issues/Error Messages

Write something...

Overall Performance Rating (1-5, 5 being excellent)

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5

Error Logs and System Alerts

Regularly review system logs to proactively identify and resolve performance-related errors.

Review recent error log entries

Write something...

Number of critical errors in last 24 hours

Enter a number...

Date of last significant error log review

Enter date...


Summary of recurring error messages

Write something...

Recurring Alert Categories (e.g., Performance, Data Integrity, Security)

- ☐ Performance
- ☐ Data Integrity
- ☐ Security
- ☐ Integration
- ☐ User Access

Attach relevant error log excerpts (if needed)

 Upload File

Scheduled Task Completion

Verify that all scheduled MRP processes (e.g., planning runs, data synchronization) are completing successfully and within acceptable timeframes.

Planned Start Time (Planning Run)

Actual Start Time (Planning Run)

Planned Completion Time (Planning Run)

Actual Completion Time (Planning Run)

Run Duration (in minutes) - Planning Run

Enter a number...

Task Status (e.g., Success, Failure, Warning)

☐ Success

☐ Failure

☐ Warning

Error/Warning Log Notes (if applicable)

Write something...

Date of Task Execution

Enter date...

Integration Performance

Assess the performance of data exchanges between the MRP system and other integrated systems (e.g., ERP, CRM).

Data Transfer Rate (MB/s)

Enter a number...

Integration Latency (seconds)

Enter a number...

Error Logs from Integration Process

Write something...

Last Successful Integration Run Date

Enter date...

Average Integration Run Time

Systems Integrated With (e.g., ERP, CRM)

- ☐ ERP
- ☐ CRM
- ☐ WMS
- ☐ SCM

Description of Recent Integration Issues (if any)

Write something...